

**Supplementary Table 2.** Subgroup analysis of clinical characteristics in CD patients with GAS T-score  $\leq 50$  (below or equal to expectation) and GAS T-score  $>50$  (above the expectation) 6 weeks after BoNT-A injection

	GAS T-score $\leq 50$ ( $n = 9$ )	GAS T-score $>50$ ( $n = 13$ )	$p$ value
Sex (female)	6 (66.7)	8 (61.5)	0.805
Age (yr)	49.4 $\pm$ 16.2	63.0 $\pm$ 15.6	0.051
Onset (yr)	37.2 $\pm$ 21.5	54.8 $\pm$ 13.7	0.036*
Duration (yr)	12.6 $\pm$ 21.5	8.1 $\pm$ 21.5	0.794
Injection time (times)	10.2 $\pm$ 7.2	11.3 $\pm$ 4.6	0.324
Dose (units)	110.6 $\pm$ 99.2	80.8 $\pm$ 31.4	0.794
CDIP-58 scores	140.3 $\pm$ 48.1	102.1 $\pm$ 33.9	0.051
CD Subgroup (simple CD)	3 (33.3)	3 (23.1)	0.595
Presence of head tremor	6 (66.7)	9 (69.2)	0.899

Values are presented as mean  $\pm$  standard deviation or  $n$  (%).

\* $p$  value  $< 0.05$  with the Mann–Whitney U test.

CD, cervical dystonia; GAS, goal attainment scale; BoNT-A, botulinum toxin type A; CDIP-58, Cervical Dystonia Impact Profile.